

Inventors: Rose et al.  
Attorney Docket: P-PM 4978

**A**

1 cccgccttcc tagctgtcccc agtggagaag gaacaagcgc ctcaactgcat ctgtgcaaac  
61 gggcgccaaa ctgtgtcctg ggcagtaacc ccaaagtcat taggaaatgt gaatttcact  
121 gtgagcgcag aggactaga gtctcaagag ctgtgtggga ctgagggtgcc ttcagttcct  
181 gaacacggaa ggaaagacac agtcatcaag cctctgttgg ttgaacctga aggactagag  
241 aaggaaacaa cattcaactc cctactttgt ccatacagggt gtgagggttc tgaagaatta  
301 tccctgaaac tgccacccaa tgtggtagaa gaatctgccc gagcttctgt ctcagtttg  
361 ggagacatat taggctctgc catgcaaaac acacaaaatc ttctccagat gccctatggc  
421 tgtggagagc agaatatggt cctcttgct cctaacatct atgtactgga ttatctaaat  
481 gaaacacacgc agcttactcc agagatcaag tccaaggcca ttggctatct caacactggt  
541 taccagagac agttgaacta caaacactat gatggctcct acagcacctt tggggagcga  
601 tatggcagga accaggcCAA cacctggctc acagccttgg ttctgaagac ttttgcCAA  
661 gctcgagcct acatcttcat cgatgaagca cacattaccc aagccctcat atggctctcc  
721 cagaggcaga aggacaatgg ctgtttcagg agctctgggt cactgctcaa caatgccata  
781 aaggggaggag tagaagatga agtgaccctc tccgcctata tcaccatcgc cttctggag  
841 attcctctca cagtcactca ccctgttgc cgcaatgccc tgtttgcct ggagtcaGCC  
901 tggaaagacag cacaagaagg ggaccatggc agccatgtat ataccaaaga cctgctggcc  
961 tatgcttttgc ccctggcagg taaccaggac aagaggaagg aagtactcaa gtcacttaat  
1021 gaggaagctg tgaagaaaga caactctgtc cattgggagc gccctcagaa acccaaggca  
1081 ccagtggggg attttacga accccaggct ccctctgctg aggtggagat gacatccat  
1141 gtgctcctcg cttatctcac ggcccagCCA gccccaaacct cggaggacct gacctctgca  
1201 accAACatcg tgaagtggat cacgaagcag cagaatgccc agggcgttt ctccctccacc  
1261 caggacacag tggtggtct ccattgtctg tccaaatatg gagcagccac atttaccagg  
1321 actgggaagg ctgcacaggt gactatccag tcttcaggga cattttccag caaattccaa  
1381 gtggacaaca acaaccgcct gttactgcag caggtctcat tgccagagct gcctgggaa  
1441 tacagcatga aagtgcacagg agaaggatgt gtctacctcc agacatcctt gaaatacaat  
1501 attctcccag aaaaggaaga gttcccctt gctttaggag tgcaagactct gcctcaaact  
1561 tgtgatgaac ccaaagccca caccagctt caaatctccc taagtgtcag ttacacaggg  
1621 agccgctctg cctccaacat ggcgatcggt gatgtgaaga tggctctgg ctccattccc  
1681 ctgaagccaa cagtaaaaat gcttggaaaga tctaaccatg tgagccggac agaagtcaGC  
1741 agcaaccatg tcttgattt ccttgataag gtgtcaaatc agacactgag cttgttcttC  
1801 acggttctgc aagatgtccc agtaagagat ctgaaaccag ccatagtgaa agtctatgat  
1861 tactacgaga cggatgagtt tgcaattgtc gagtacaatg ctccctgcag caaagatctt  
1921 ggaaaatgctt gaagaccaca aggctaaaaa gtgcttgct ggagtcctgt tctcagagct  
1981 ccacagaaga cacgtttt tgcattttt aagacttgat gaataaacac ttttctgg  
2041 c

**B**

PAFLAVPVEKEQAPHCICANGRQTVSWAVTPKSLGNVNFTVSAEALESQELCGTEVPSVPEHGRKDTVIKPL  
LVEPEGLEKETTFNSLLCPGGEVSEELSLKLPPNVVEESARASVSVLGDILGSAMQNTQNLLOQMPYGCGEQ  
NMVLFAPNIYVLDYLNETQQLTPEIKSKAIGYLNTGYQRQLNYKHYDGSYSTFGERYGRNQGNTWLTAFLV  
TFAQARAYIFIDEAHITQALIWLQRQKDNGCFRSSGSLLNNAIKGGEDEVTLSAYITIALLEIPLTVTHP  
VVRNALFCLESAWKTAQEGDHGSHVYTKDLLAYAFALAGNQDKRKEVLKSLNEAVKKDNSVHW  
ERPKPKPA PVGDFYEPQAPS A E V E M T S Y V L L A Y L T A Q P A P T S E D L T S A T N I V K W I T K Q Q N A Q G G F S S T Q D T V V A L H A L S K  
YGAATFTRTGKAAQVTIQSSGTFSKFQVDNNNRLLLQQVSLPELPGEYSMKVTGEGCVYLQTSLKYNILPE  
KEEFPFALGVQTLQTCDEPKAHTSFQISLSVSYTGSRSASNMAIVDVKMVSGFIPLKPTVKMLERSNH  
VSR TEVSSNHVLIYLDKVSNQTLSSLFFTVLQDVPVRDLKPAIVKVYDYYETDEFAIAEYNAPCSKDLGNA

FIGURE 1

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**A** 1 aggggcctta gcgtgccgca tcgcccagat ccagcgccca gagagacacc agagaaccca  
61 ccatggcccc ctggagccc ctggattctg gcatcctgtt gttgctgtgg ctgatagccc  
121 ccagcaggc ctgcacctgt gtcccacccc acccacagac ggccttctgc aattccgacc  
181 tcgtcatcag ggccaagttc gtggggacac cagaagtcaa ccagaccacc ttataccagc  
241 gttatgagat caagatgacc aagatgtata aagggttcca agccttaggg gatgccgctg  
301 acatccggtt cgtctacacc cccgcacatgg agagtgtctg cggatacttc cacaggtccc  
361 acaaccgcag cgaggagttt ctcattgctg gaaaactgca ggatggactc ttgcacatca  
421 ctacctgcag tttcgtggct ccctggaaca gcctgagctt agctcagcgc cggggcttca  
481 ccaagaccta cactgttggc tgtgaggaat gcacagtgtt tccctgttta tccatccc  
541 gcaaactgca gagtggcact cattgcttgt ggacggacca gtcctccaa ggctctgaaa  
601 agggcttcca gtcccgac cttgcctgcc tgcctcggga gccagggttg tgcacctggc  
661 agtccctgcg gtcccagata gcctgaatcc tgcccgaggt ggaactgaag cctgcacagt  
721 gtccaccctg ttcccactcc catcttctt ccggacaatg aaataaaagag ttaccaccca  
781 gc

**B** MAPFEPLASGILLLWLAPSRACTCVPPHPQTAFCNSDLVIRAKFVGTPEVNQTTLYQRYEIKMTKMYKG  
FQALGDAADIRFYTPAMESVCGYFHRSHNRSEELIAGKLQDGLLHITCSFVAPWNSLSLAQRGGFTKT  
YTVGCEECTVFPCLSIPCKLQSGTHCLWTDQLLQGSEKGFQSRHLACLPREPGLCTWQSLRSQIA

**FIGURE 2**